



NEWS



European Commission

H2020-MSCA-RISE-2016 – Grant Agreement N° 734303



HZDR



POLITECNICO MILANO 1863

EGO - Virgo



UNIVERSITÀ DI PISA



Stockholm University



UNIVERSITÀ DEGLI STUDI DI GENOVA



SAPIENZA UNIVERSITÀ DI ROMA



Transfer of Knowledge

Rosario De Rosa, Elena Pedreschi, Radia Sia



WP-10 Co-Leaders



Transfer of Knowledge (ToK)



Two of the main NEWS goals are:

- promote the collaboration among researches;
- facilitate the transfer of knowledge between research institutions and companies;

It is important to coordinate all the activities specifically aimed to this target: direct collaborations, training courses at companies, Schools, general training courses, etc.

These are exactly the objectives of this Work Package.

Main Objectives of WP-10



Coordinate all the training activities:

- Maximize the transfer of knowledge among the participants;
- Increase the research quality and competitiveness of the participants institutions;

Provide trained personnel:

- Enhance personnel capabilities to be independent in the needed skills;



WP-10 Tasks



A list of specific tasks was identified, among the main actions of the project:

- Some tasks are more specifically related to selected activities of the project
- Some tasks are more general and involve all the participants.

A Task Leader is foreseen for each task in the work-package.

Task Leaders will be appointed in the next future, taking into account the involvement in the related activities.



Task List and connections among WPs



- T10.1: Research-Industry ToK;
- T10.2: GPD polarimeter for space applications;
- T10.3: Electronics for Particle Physics and Space applications;
- T10.4: Electrochemical techniques;
- T10.5: High Speed Computing;
- T10.6: Training courses;

Task	Involved WPs
T10.1	WP2:WP8
T10.2	WP5
T10.3	WP5, WP6
T10.4	WP7
T10.5	WP2:WP8
T10.6	WP2:WP8

Details on tasks



T10.1 - Research-Industry ToK:



Maximization of the ToK among Research Institutions, International Laboratories, and Companies which will be placed in contact with the most recent developments in science and acquire new competences.

T10.2 - GPD polarimeter for space applications:

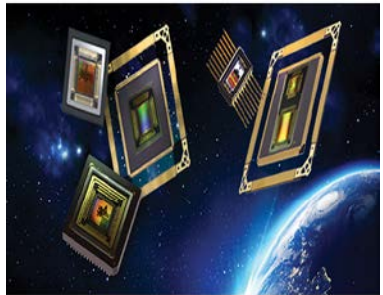


INFN will transfer its long-standing expertise in integration and production of X-ray detectors for space applications. The GPD prototypes will be thoroughly tested and characterized at INFN and the final design implementation will serve as a base for the definition of the assembly procedure of all flight models.

Details on tasks

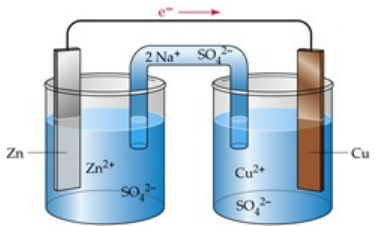


T10.3 - Radiation Hard Electronic Components for Particle Physics and Space applications:



Transfer of expertise in the design of radiation hard electronic components for particle physics and space applications. This will be important for future involvement of companies in projects for the development of components for space or medical applications for in-vivo dosimetry at proton and ion beams. HZDR will provide training on the use of irradiation facilities.

T10.4 - State-of-the-art electrochemical techniques:



ToK between POLIMI, FNAL and FRD to optimize electrochemical techniques for Niobium-tin (Nb_3Sn) thin layer deposition on Nb and Cu surfaces to develop superconducting wires and radio-frequency cavities.

Details on tasks



T10.5 - High-Speed Computing:



ToK from the US Laboratories Scientific Computing Divisions in the field of high-speed computing, grid, cloud computing, to European Research Institutions involved in the development of computing infrastructures and data analysis.

T10.6 - Training courses:



Organization of special Training Courses in coincidence with the NEWS General Meetings. Training Sessions will be devoted to trainings on specific advanced topics from research development in fundamental physics or from technological developments from companies.

Methodology



In order to fulfill the required tasks it is necessary:

- a) Check the progress of cross activities among WPs;
- b) Check the effectiveness of secondments in terms of cooperation and transfer of knowledge;
- c) Promote Training Events and Schools, already foreseen by the participating institutions, among NEWS researchers;
- d) Organize special Training Courses: this is already foreseen in connection with General Meetings (T10.6);

Milestones and Deliverable



No milestone planned for this WP;

A report on training is expected on M9 (D10.1);

In coincidence with the *General Meetings*, trainings for the project researchers will be organized;

There will be trainings delivered both by external experts and by the project researchers;

These will take place on M9, M21, M33, M45.

Thank you!